Math 212 Quiz 10

W 14 Sep 2016

Your name:	

Exercise

(2 pt) Let $f: \mathbf{R}^n \to \mathbf{R}$ be a function, and let $\mathfrak{a} = (\mathfrak{a}_1, \dots, \mathfrak{a}_n)$ be a point of \mathbf{R}^n . This exercise investigates the limit

$$\lim_{x\to\alpha}f(x).$$

Mark each of the following statements True or False. No justification is necessary.

- (a) (1 pt) Let n=1, i.e. $f: \mathbf{R} \to \mathbf{R}$. To compute the limit, it suffices to check x approaching a along lines in \mathbf{R} .
- (b) (1 pt) Let n=2, i.e. $f: \mathbf{R}^2 \to \mathbf{R}$. To compute the limit, it suffices to check x approaching a along lines in \mathbf{R}^2 .